

Table 1: Modify ESN Requirements

paragraph_id	requirement_key	release	s_verification_method	s_verification_status	a_verification_method	a_verification_status	req_category	req_type	text	clarification	req_interpretation	ccr
ESN-0010#B	9624	B0B1	test	un-verified	test	un-verified	mission <del>essential</del> <u>critical</u>	security	ESN shall provide the following services: a. Data Transfer and Management Services b. Electronic Messaging Service c. Remote Terminal Service d. Process to Process Communication Service e. Directory and User Access Control Service f. Network Management Service g. Network Security and Access Control Service h. Internetwork Interface Services i. Bulletin Board Service			97-1140
ESN-0003#B	9033	B0B1	analysis	unverified	analysis	unverified	mission essential	functional	The ESN shall enable researchers on existing networks (TCP/IP and GOSIP) to gain access to data and ECS services in a transparent manner to underlying differences between the networks.	B0 does not support JPL and ORNL DAACs.  <u>ECS external interfaces do not require GOSIP.</u> <u>All the external interfaces are supported by</u>	B: ASTER GDS interfaces to EDC DAAC only. All researchers gain access to data and ECS via NSI.  ECS supports	97-0627A

										<u>TCP/IP.</u>	the SUITE TCP/IP protocol network.  Note: Some European scientists with OSI based networks should be able to access ECS via the Internet.	
ESN-0080#B	9041	B0B1	test	un-verified	test	un-verified	mission essential	functional	The ESN shall interface with EBnet for inter-site data transmission between ECS DAACs.	B0 does not support JPL and ORNL DAACs <u>because these are B.1 capabilities.</u>	ESN is considered to be ECS DAAC networks.	97-0627A
ESN-0760#B	9047	B0	test	un-verified	test	un-verified	mission essential	functional	The ESN report generation function shall provide, on an interactive and scheduled basis, accounting, network configuration, fault and performance management information.	<u>Accounting is part of B.1 capability.</u>		97-0627A

Table1 continued:

paragraph_id	requirement_key	release	s_verification_method	s_verification_status	a_verification_method	a_verification_status	req_category	req_type	text	clarification	req_interpretation	ccr
ESN-0815#B	8765	B0B1	analysis	un-verified	analysis	un-verified	mission essential	functional   operational	Network simulation and traffic modeling capability shall be provided to troubleshoot network problems and to use in network planning.	As part of B.0 capability, existing MIB-2 provides information on external traffic from DAAC user network that can be used to collect data and drive the Site <del>Capability</del> Capacity Planning Model. As part of B.0 capability, Network Analyzer (i.e., Sniffer) equipment on each DAAC and SMC will provide capability for troubleshooting.		97-0969A

Table 2: Create New ISS L4s

<u>Paragraph id</u>	<u>req key</u>	<u>Release</u>	<u>Req Type</u>	<u>s verification method</u>	<u>s verification status</u>	<u>Text</u>
<u>C-ISS-02524</u>	<u>New</u>	<u>B0</u>	<u>functional</u>	<u>test</u>	<u>unverified</u>	<u>The ISS shall have the capability to provide protocol bridging services between network segments.</u>
<u>C-ISS-02526</u>	<u>New</u>	<u>B0</u>	<u>functional</u>	<u>test</u>	<u>unverified</u>	<u>The ISS shall provide protocol termination services in network devices.</u>

Table 3: Modify Text for MSS L4

<u>Paragraph id</u>	<u>req key</u>	<u>Release</u>	<u>CCR</u>	<u>Req Type</u>	<u>s verification method</u>	<u>s verification status</u>	<u>Text</u>
C-MSS-60130	2345	IR1	97-0626A	functional	test	unverified	<p>The MSS Fault Management Application Service shall provide the capability to detect the following types of faults, errors and events:</p> <ul style="list-style-type: none"> <li>a. communications software version mismatch errors</li> <li>b. communication software configuration errors</li> <li>c. the following errors in communications hardware: <ul style="list-style-type: none"> <li>1. host not reachable</li> <li>2. router not reachable</li> <li>3. errors and failures of communication links</li> </ul> </li> <li>d. Errors in the communications protocols supported</li> <li>e. degradation of performance due to established thresholds being exceeded</li> <li>f. Peripherals</li> <li>g. Databases</li> <li>h. Applications: <ul style="list-style-type: none"> <li>1. process missing (Application or COTS product)</li> <li>2. process in a loop</li> <li>3. process failed</li> </ul> </li> </ul>

Table 4: Delete ISS L4 requirement

CCR # 97-1240A

Paragraph_id	key	release	req_type	req_status	verification_status	verification_method	CCR	clarification	Text
<del>C-ISS-20120</del>	<del>-7448</del>	<del>B</del>	<del>functional</del>	<del>approved</del>	<del>test</del>	<del>unverified</del>	<del>97-0322A</del>		<del>The ISS shall provide for connectivity between the EOC and EBnet for AM-1 instrument flight operations.</del>

Table 5: Link RBRs to Level 4s

<u>RBR</u>	<u>Level 4</u>
<u>ESN-0450#B</u>	<u>C-CSS-10820</u>
<u>ESN-1065#B</u>	<u>C-MSS-69100</u>
<u>ESN-1065#B</u>	<u>C-MSS-69105</u>
<u>ESN-1065#B</u>	<u>C-MSS-69110</u>
<u>ESN-1065#B</u>	<u>C-MSS-69120</u>
<u>ESN-1065#B</u>	<u>C-MSS-69150</u>
<u>ESN-1140#B</u>	<u>C-ISS-02520</u>
<u>ESN-1140#B</u>	<u>C-ISS-02522</u>
<u>ESN-1140#B</u>	<u>C-ISS-02530</u>
<u>ESN-1140#B</u>	<u>C-ISS-02524</u>
<u>ESN-1140#B</u>	<u>C-ISS-02526</u>
<u>ESN-1170#B</u>	<u>C-CSS-61040</u>